Index to Volume 31

Authors and Titles

Ahsanullah, M., Negilski, D. S., and Tawfik, F.

Heavy metal content of *Callianassa* spp. in Western Port 847

Ahsanullah, M., and Palmer, D. H.
Acute toxicity of selenium to three species

of marine invertebrates, with notes on a continuous-flow test system 795

Ainslie, R.

Haemocyanin concentrations in field populations of three species of southern Australian abalone 627

Allison, H. See Tuck, E. O. Austin, A. D., Austin, S. A., and

Sale, P. F.
Community structure of the fauna

associated with the coral Pocillopora damicornis (L.) on the Great Barrier Reef 163

Austin, S. A. See Austin, A. D.

Backhouse, G. N. See Cadwallader, P. L. Bales, John L., Curtin, Gregory K., Campbell, Ian C., and Hart, Barry T.

Eutrophication study of Lake Daylesford, Victoria 573

Beckett, Ronald. See Ellaway, Mark. Blaber, S. J. M.

Fish of Trinity Inlet system of north Queensland with notes on the ecology of fish faunas of tropical Indo-Pacific estuaries 137

Blair, D. See Lester, R. J. G. Bradley, J. S. See Marks, P. J.

Briggs, S. V.

Chemical studies on four wetlands on the northern tablelands of New South Wales 729

Bryant, Edward

Bathymetric changes in three estuaries of the central New South Wales coast 553

Buchwald, V. T. Resonance of Poincaré waves on a

continental shelf 451 Buckney, R. T. See Tyler, P. A. Bunt, John S. See Wolanski, Eric Burns, Kathryn A., and Smith, Jonathon L. Hydrocarbons in Victorian coastal waters 251

Cadwallader, P. L., Backhouse, G. N., and Fallu, R.

Occurrence of exotic tropical fish in the cooling pondage of a power station in temperate south-eastern Australia 541

Cadwallader, P. L., Eden, A. K., and Hook, Rosemary A.

Role of streamside vegetation as a food source for *Galaxias olidus* Günther (Pisces: Galaxidae) 257

Calf, G. E. See Harries, J. R. Campbell, Ian C. See Bales, John L. Carleton, J. H. See Ikeda, T.

Carter, J. G. T.

Effect of acute exposure to zinc on osmoregulation and water balance of the aquatic larvae of the blackfly, Simulium ornatipes 373

Chvojka, R., and Williams, R. J.

Mercury levels in six species of Australian commercial fish 469

Coller, Bruce A. W., and Gipps, John F.
Effect of physical and culture conditions on
uptake of cadmium by *Chlorella*pyrenoidosa 747

Collett, L. C. See Gibbs, P. J.

Collette, Bruce B., and Russo, Joseph L.

Scomberomorus munroi, a new species of
Spanish mackerel from Australia and New
Guinea 241

Collins, A. J. See Gibbs, P. J.

Correll, R. L. See Williams, Meryl J.

Creese, R. G.

Reproductive cycles and fecundities of two species of *Siphonaria* (Mollusca: Pulmonata) in south-eastern Australia 37

Reproductive cycles and fecundities of four common eastern Australian archaeogastropod limpets (Mollusca: Gastropoda) 49

Curtin, Gregory K. See Bales, John L.

Daly, J. C., and Richardson, B. J.

Allozyme variation between populations of baitfish species Stolephorus heterolobus and St. devisi (Pisces: Engraulidae) and Spratelloides gracilis (Pisces: Dussumieriidae) 701

Dawson, C. E.

Kimblaeus, a new pipefish genus (Syngnathiformes: Syngnthidae) from Australia, with a key to genera of pipefishes with continuous superior ridges 517

De Deckker, P., and Geddes, M. C. Seasonal fauna of ephemeral saline lakes near the Coorong lagoon, South Australia 677

Dixon, P. See Ikeda, T.

Dorsey, John H., and Synnot, Russell N. Marine soft-bottom benthic community offshore from Black Rock sewage outfall, Connewarre, Victoria 155

Eden, A. K. See Cadwallader, P. L. Edwards, R. R. C.

Aspects of the population dynamics and ecology of the white spotted stingaree, *Urolophus paucimaculatus* Dixon, in Port Phillip Bay, Victoria 459

Ellaway, Mark, Beckett, Ronald, and Hart, Barry T.

Behaviour of iron and manganese in the Yarra estuary 597

Everitt, D. A., Poore, G. C. B., and Pickard, J. Marine benthos from Davis Station, eastern Antarctica 829

Fallu, R. See Cadwallader, P. L.
Farrell, T. P. See Finlayson, C. M.
Field, Susan R. See Tuck, E. O.
Finlayson, C. M., Farrell, T. P., and
Griffiths, D. J.

Studies of the hydrobiology of a tropical lake in north-western Queensland. II. Seasonal changes in thermal and dissolved oxygen characteristics 589

Fisher, R. P. See Marshall, J. I.

Geddes, M. C. See De Deckker P.; Mills, Brian J.

Gibbs, P. J., Collins, A. J., and Collett, L. C. Effect of otter prawn trawing on the macrobenthos of a sandy substratum in a New South Wales estuary 509 Gipps, John F. See Coller, Bruce A. W. Godfrey, J. S., Jones, Ian S. F., Maxwell, J. Garrey H., and Scott, B. D. On the winter cascade from Bass Strait into the Tasman Sea 275 Grant, C. J. See Spain, A. V. Griffiths, D. J. See Finlayson, C. M.

Harries, J. R., and Calf, G. E. Tritium measurements in the Tasman Sea and the Southern Ocean Harrison, K. See Holdich, D. M. Hart, Barry T., and McGregor, Robert J. Limnological survey of eight billabongs in the Magela Creek catchment, Northern Territory 611 Hart, Barry T. See also Bales, John L.; Ellaway, Mark Heald, D. See Lester, R. J. G. Holdich, D. M., and Harrison, K. The crustacean isopod genus Gnathia Leach from Queensland waters with descriptions of nine new species 215 Holmes, A. N., Williams, W. D., and Wood, G. Relationships between forms of nitrogen and hydrological characteristics in a small stream near Adelaide 297 Hook, Rosemary A. See Cadwallader, P. L. Hortle, M. E., and White, R. W. G. Diet of Pseudaphritis urvillii (Cuvier & Valenciennes) (Pisces: Bovichyidae) from south-eastern Tasmania 533

Ikeda, T., Mitchell, A. W., Carleton, J. H., and Dixon, P.
Transport of living Antarctic zooplankton to a tropical laboratory: a feasibility study 271

Jackson, P. D.

Movement and home range of brown trout, Salmo trutta Linnaeus, in the Aberfeldy River, Victoria 837

Jackson, P. D., and Williams, W. D.

Effects of brown trout, Salmo trutta L.,
on the distribution of some native fishes
in three areas of southern Victoria 61

Joll, L. M.

Reproductive biology of two species of Turbinidae (Mollusca : Gastropoda) 319 Jones, Jan S. F.

Tidal and wind-driven currents in Bass Strait 109 See also Godfrey, J. S.

Jones, Martin. See Wolanski, Eric

Kirk, J. T. O.

Relationship between nephelometric turbidity and scattering coefficients in certain Australian waters

Spectral absorption properties of natural waters: contribution of the soluble and particulate fractions to light absorption in some inland waters of south-eastern Australia 287

Lake, P. S. See Norris, R. H.
Lester, R. J. G., Blair, D., and Heald, D.
Nematodes from scallops and turtles from Shark Bay, Western Australia 713
Longmore, Andrew R. See Smith, J. David

McCambridge, John, and McMeekin, T. A. Effect of temperature on activity of predators of Salmonella typhimurium and Escherichia coli in estuarine water 851

McGregor, Robert J. See Hart, Barry T. McMeekin, T. A. See McCambridge, John. Malipatil, M. B.

Review of Australian Microvelia Westwood (Hemiptera: Veliidae) with a description of two new species from eastern Australia 85

eastern Australia 85 Marks, P. J., Plaskett, D., Potter, I. C., and

Bradley, J. S.
Relationship between concentration of heavy metals in muscle tissue and body weight of fish from the Swan-Avon estuary, Western Australia 783

Marshall, J. I., Rowe, F. W. E., Fisher, R. P. and Smith, D. F.

Alterations to the relative abundance of ascidians and barnacles in a fouling community due to screeens 147

Maxwell, J. Garrey H. See Godfrey, J. S.

Mills, Brian J., and Geddes, Michael C. Salinity tolerance and osmoregulation of the Australian freshwater crayfish Cherax destructor Clark (Decapoda: Parastacidae) 667

Mitchell, A. W. See Ikeda, T. Mulley, J. C., and Shearer, K. D. Identification of natural 'Yanco' × 'Boolara' hybrids of the carp Cyprinus carpio 409

Neboiss, A.

Australian species of the genus

Anisocentropus McLachlan

(Calamoceratidae: Trichoptera) 193

 Negilski, D. S. See Ahsanullah, M.
 Ngan, Y., and Price, I. R.
 Distribution of intertidal benthic algae in the vicinity of Townsville, tropical Australia 175

Norris, R. H., Lake, P. S., and Swain, R. Ecological effects of mine effluents on the South Esk River, north-eastern Tasmania. I. Study area and basic water characteristics 817

Ottaway, J. R.

Population ecology of the intertidal anemone Actinia tenebrosa. IV. Growth rates and longevities 385

Palmer, D. H. See Ahsanullah, M. Penn, J. W.

Spawning and fecundity of the western king prawn, *Penaeus latisulcatus* Kishinouye, in Western Australian waters 21

Observations on length-weight relationships and distribution of the red spot king prawn, *Penaeus longistylus* Kubo, in Western Australian waters 547

Pickard, J. See Everitt, D. A.
Plaskett, D. See Marks, P. J.
Poore, G. C. B. See Everitt, D. A.
Potter, I. C. See Marks, P. J.
Powis, B. J., and Robinson, K. I. M.
Benthic macrofaunal communities in the
Tuggerah Lakes, New South
Wales 803

Ramm, D. C.

Price, I. R. See Ngan, Y.

Electromagnetic tracking of rock lobsters (Jasus novaehollandiae) 263

Richardson, A. M. M., and Swain, R.
Habitat requirements and distribution of
Engaeus cisternarius and three
subspecies of Parastacoides tasmanicus
(Decapoda: Parastacidae), burrowing
crayfish from an area of south-western
Tasmania 475

Richardson, B. J. See Daly, J. C. Rimmer, D. W.

Spatial and temporal distribution of early-stage phyllosoma of western rock lobster, *Panulirus cygnus* 48:

Roberts, D. See Wells, Fred E. Robinson, K. I. M. See Powis, B. J. Rowe, F. W. E. See Marshall, J. I. Russo, Joseph L. See Collette, Bruce B. Sale, P. F. See Austin, A. D.

Scott, B. D. See Godfrey, J. S. Shearer, K. D. See Mulley, J. C.

Sinclair, D. F. See Spain, A. V.

Smith, D. F. See Marshall, J. I.

Smith, J. David, and Longmore, Andrew R. Phosphate distribution in Bass Strait and south-eastern Australian coastal waters 119

Smith, Jonathon L. See Burns, Kathryn A. Smith, J. W. See Tuck, E. O.

Smith, Meredith J., and Williams, W. D.
Infraspecific variation within the Atyidae:
a study of morphological variation
within a population of *Paratya*

australiensis (Crustacea: Decapoda) 397 Spain, A. V., Grant, C. J., and Sinclair, D. F. Phenotypic affinities of 11 species of Australian mullet (Pisces: Mugilidae) 69

Stanley, C. A.

Lee's phenomenon in the western subspecies of the Australian salmon,

Arripis trutta esper 13 Staples, D. J.

Ecology of juvenile and adolescent banana prawns, *Penaeus merguiensis*, in a mangrove estuary and adjacent off-shore area of the Gulf of Carpentaria. I. Immigration and settlement of postlarvae 635

11. Emigration, population structure and growth of juveniles 653

Sumner, Colin E.

Growth of Pacific oysters, Crassostrea gigas Thunberg, cultivated in Tasmania. I. Intertidal stick culture 129

Swain, R. See Norris, R. H.; Richardson, A. M. M.

Synnot, Russell N. See Dorsey, John H.

Tawfik, F. See Ahsanullah, M.

Tedman, R. A.

Comparative study of the cranial morphology of the labrids Choerodon venustus and Labroides dimidiatus and the scarid Scarus fasciatus (Pisces: Perciformes). I. Head skeleton 337 II. Cranial myology and feeding mechanism 351

Tuck, E. O., Allison, H., Field, Susan R., and Smith, J. W.

Effect of a submerged reef chain on periods of sea-level oscillations in Western Australi 719

Tyler, P. A., and Buckney, R. T. Ferromanganese concretions in Tasmanian lakes 525

Veitch, L. G. See Williams, Meryl J.

Wells, Fred E., and Roberts, D.
Molluscan assemblages on an intertidal
sandflat in Princess Royal Harbour,
Western Australia 499

White, R. W. G. See Hortle, M. E. Williams, Meryl J., Veitch, L. G., and Correll, R. L.

Models for describing shape and allometry, illustrated by studies of Australian species of *Uca* (Brachyura: Ocypodidae) 757

Williams, W. D. See Holmes, A. N.; Jackson, P. D.; Smith, Meredith J.

Wolanski, Eric, and Jones, Martin Water circulation around Britomart Reef, Great Barrier Reef, during July 1979 415

Wolanski, Eric, Jones, Martin, and Bunt, John S.

Hydrodynamics of a tidal creek-mangrove swamp system 431

Wood, G. See Holmes, A. N.

